## Rec'd PCT/PTO 15 APR 2005

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 29 April 2004 (29.04.2004)

**PCT** 

(10) International Publication Number WO 2004/036663 A3

(51) International Patent Classification<sup>7</sup>: 27/00

H01L 51/40,

[GB/GB]; 47 Greenhill Park, Penicuik, Midlothian EH26 9EX (GB).

(21) International Application Number:

PCT/GB2003/004466

- (74) Agent: HANSON, William, Bennett; JY & GW Johnson, Bromhead Johnson, Kingsbourne House, 229-231 High Holborn, London WC1V 7DP (GB).
- (22) International Filing Date: 14 October 2003 (14.10.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0224121.4

16 October 2002 (16.10.2002) GI

(84) Designated States (regional): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

Published:

with international search report

(81) Designated States (national): JP, US.

- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 19 August 2004

Y, Alas- For two-letter codes and dinburgh ance Notes on Codes and

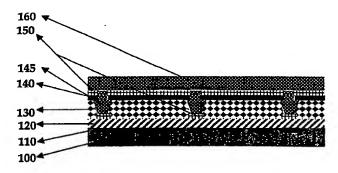
(71) Applicant (for all designated States except US): MI-CROEMISSIVE DISPLAYS LIMITED [GB/GB]; Scottish Microelectronics Centre, The King's Buildings, West Mains Road, Edinburgh EH9 3JF (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BUCKLEY, Alastair [GB/GB]; Flat 2f2, 92 Montpelier Park, Edinburgh EH10 4NG (GB). WILKINSON, Christopher, Ian

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF PATTERNING A FUNCTIONAL MATERIAL ON TO A SUBSTRATE



(57) Abstract: A method of patterning a functional material (150) onto a substrate (100) comprises the steps of (a) applying a layer of protective material (130), soluble in a solvent in which the functional material is insoluble, to at least one major surface of said substrate; (b) removing areas of said layer (130) to gain access to the substrate in well-defined regions; (c) depositing the functional material (150) at least onto the substrate in the well-defined regions; and (d) removing the remaining layer of protective material from the substrate by dissolution in said solvent.